

Cheat Sheet

This following is a list of common functions and class methods. It is not exhaustive, but acts as general reference.

1. ioapiTools functions

- *binAverager* – averages over an axis, e.g. converts hourly data to daily average
- *concatenate* – concatenates a series of variables
- *contour* – make a contour or raster plot of variable
- *coordConv* – converts between different coordinate systems
- *coordInDomain* – tests if coordinate in spatial domain
- *createVariable* – creates an iovar variable
- *datacombineMeta* – combines metadata from a series of variables
- *dateInDomain* – tests if date in temporal domain
- *dates2Cdtime* – converts dates to cdtime object
- *dates2DateTime* – converts dates to mx.DateTime objects
- *layerInDomain* – tests if layer in vertical domain
- *ocontour* – overlay a contour over another contour plot
- *ovector* – overlay vector plot over another contour
- *open* – opens a file for reading or writing, returns iofile
- *scan* – scans through files for date range, returns iofilescan

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2. iofile methods

- *close* – closes a file
- *extract* – extracts a variable from a file
- *listvariables* – list the variables in a file
- *write* – writes a variable to a file

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3. iofilesca methods

- *close* – closes a file
- *extract* – extracts a variable from a file
- *listvariables* – list the variables in a file

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4. iovar methods

- *contour* – makes a contour or raster plot
- *getLatitude* – returns latitude axis
- *getLongitude* – returns longitude axis
- *getLevel* – returns level or layer axis
- *getTime* – returns time axis
- *getValue* – converts iovar to Numeric array
- *ioM* – iometa object, an attribute
- *IO2cdms* – converts iovar to cdms variable
- *IOchangeDate* – changes the start date of time axis
- *IOclone* – makes a copy of the iovar object
- *IOcoordConv* – coordinate converter
- *IOcoordInDomain* – tests if point in spatial domain
- *IDateInDomain* – tests if date in temporal domain
- *IEqual* – tests 2 variables for data equivalence
- *ILayerInDomain* – tests if layer in vertical domain
- *IModVar* – modifies the variables metadata
- *ISubset* – subsets the variable
- *ocontour* – overlays a contour plot over another contour

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5. iometa methods

- *copy* – copies the iometa object
- *repVar* – replaces the variable's metadata in iometa

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6. cdmsmeta methods

- *copy* – copies the cdmsmeta object
- *getAxes* – returns a list of the axes

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